

1 ATGGCGCAGA AGGGCCAAC T CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAAATT ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTCACT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAACG ACAACTCCTC ACGATTCCGG
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCAGG GGCAATTTCG CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAAC TACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTCACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTTCGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC

FIG. 1A

1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA
 1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
 1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
 1651 GCCACGGACA AGTCCTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
 1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
 1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
 1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
 1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
 1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
 1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
 2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
 2051 GCTGCATCAT CCCCAGCCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
 2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTGCGAT
 2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
 2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
 2251 AAGCAGGCCT GCATTCTCAT GATCAAAGCC CTGGAAGTTG ACCCCAAGTT
 2301 ATACAGGATA GGGCAGAGCA AAATCTTCTT CCGAACTGGC GTCCTGGCCC
 2351 ACCTAGAGGA GGAGCGAGAT TTGAAGATCA CCGATGTCAT CATGGCCTTC
 2401 CAGGCGATGT GTCGTGGCTA CTTGGCCAGA AAGGCTTTTG CCAAGAGGCA
 2451 GCAGCAGCTG ACCGCCATGA AGGTGATTCA GAGGAACTGC GCCGCCTACC
 2501 TCAAGCTGCG GAACTGGCAG TGGTGGAGGC TTTTCACCAA AGTGAAGCCA
 2551 CTGCTGCAGG TGACACGGCA GGAGGAGGAG ATGCAGGCCA AGGAGGATGA
 2601 ACTGCAGAAG ACCAAGGAGC GGCAGCAGAA GGCAGAGAAT GAGCTTAAGG
 2651 AGCTGGAACA GAAGCACTCG CAGCTGACCG AGGAGAAGAA CCTGCTACAG
 2701 GAACAGCTGC AGGCAGAGAC AGAGCTGTAT GCAGAGGCTG AGGAGATGCC
 2751 GGTGCGGCTG GCGGCCAAGA AGCAGGAGCT GGAGGAGATA CTGCATGAGA
 2801 TGGAGGCCCCG CCTGGAGGAG GAGGAAGACA GGGGCCAGCA GCTACAGGCT
 2851 GAAAGGAAGA AGATGGCCCA GCAGATGCTG GACCTTGAAG AACAGCTGGA
 2901 GGAGGAGGAA GCTGCCAGGC AGAAGCTGCA ACTTGAGAAG GTCACGGCTG
 2951 AGGCCAAGAT CAAGAACTG GAGGATGAGA TCCTGGTCAT GGATGATCAG
 3001 AACATAAAC TATCAAAAGA ACGAAACTC CTTGAGGAGA GGATTAGTGA

FIG. 1B

3051 CTTAACGACA AATCTTGCAG AAGAGGAAGA AAAGGCCAAG AATCTTACCA
 3101 AGCTGAAAAA CAAGCATGAA TCTATGATTT CAGAACTGGA AGTGCGGCTA
 3151 AAGAAGGAAG AGAAGAGCCG ACAGGAGCTG GAGAAGCTGA AACGGAAGCT
 3201 GGAGGGTGAT GCCAGCGACT TCCACGAGCA GATCGCTGAC CTCCAGGCGC
 3251 AGATCGCAGA GCTCAAGATG CAGCTGGCCA AGAAGGAGGA GGAGCTGCAG
 3301 GCGGCCCTGG CCAGGCTTGA CGATGAAATC GCTCAGAAGA ACAATGCCCT
 3351 GAAGAAGATC CGGGAGCTGG AGGGCCACAT CTCAGACCTC CAGGAGGACC
 3401 TGGACTCAGA GCGGGCCGCC AGGAACAAGG CTGAAAAGCA GAAGCGAGAC
 3451 CTCGGCGAGG AGCTGGAGGC CCTAAAGACA GAGCTGGAAG ACACACTGGA
 3501 CAGCACAGCC ACTCAGCAGG AGCTCAGGGC CAAGAGGGAG CAGGAGGTGA
 3551 CGGTGCTGAA GAAGGCCCTG GATGAAGAGA CGCGGTCCCA TGAGGCTCAG
 3601 GTCCAGGAGA TGAGGCAGAA ACACGCACAG GCGGTGGAGG AGCTCACAGA
 3651 GCAGCTTGAG CAGTTCAAGA GGGCCAAGGC GAACCTAGAC AAGAATAAGC
 3701 AGACGCTGGA GAAAGAGAAC GCAGACCTGG CCGGGGAGCT GCGGGTCCTG
 3751 GGCCAGGCCA AGCAGGAGGT GGAACATAAG AAGAAGAAGC TGGAGGCGCA
 3801 GGTGCAGGAG CTGCAGTCCA AGTGCAGCGA TGGGGAGCGG GCCCGGGCGG
 3851 AGCTCAATGA CAAAGTCCAC AAGCTGCAGA ATGAAGTTGA GAGCGTCACA
 3901 GGGATGCTTA ACGAGGCCGA GGGGAAGGCC ATTAAGCTGG CCAAGGACGT
 3951 GGCGTCCCTC AGTTCCAGC TCCAGGACAC CCAGGAGCTG CTTCAAGAAG
 4001 AAACCCGGCA GAAGCTCAAC GTGTCTACGA AGCTGCGCCA GCTGGAGGAG
 4051 GAGCGGAACA GCCTGCAAGA CCAGCTGGAC GAGGAGATGG AGGCCAAGCA
 4101 GAACCTGGAG CGCCACATCT CCACTCTCAA CATCCAGCTC TCCGACTCGA
 4151 AGAAGAAGCT GCAGGACTTT GCCAGCACCG TGGAAGCTCT GGAAGAGGGG
 4201 AAGAAGAGGT TCCAGAAGGA GATCGAGAAC CTCACCCAGC AGTACGAGGA
 4251 GAAGGCGGCC GCTTATGATA AACTGGAAAA GACCAAGAAC AGGCTTCAGC
 4301 AGGAGCTGGA CGACCTGGTT GTTGATTTGG ACAACCAGCG GCAACTCGTG
 4351 TCCAACCTGG AAAAGAAGCA GAGGAAATTT GATCAGTTGT TAGCCGAGGA
 4401 GAAAAACATC TCTTCCAAAT ACGCGGATGA GAGGGACAGA GCTGAGGCAG
 4451 AAGCCAGGGA GAAGGAAACC AAGGCCCTGT CCCTGGCTCG GGCCCTTGAA
 4501 GAGGCCTTGG AAGCCAAAGA GGAACCTGAG CGGACCAACA AAATGCTCAA
 4551 AGCCGAAATG GAAGACCTGG TCAGCTCCAA GGATGACGTG GGCAAGAACG

FIG. 1C

4601 TCCATGAGCT GGAGAAGTCC AAGCGGGCCC TGGAGACCCA GATGGAGGAG
 4651 ATGAAGACGC AGCTGGAAGA GCTGGAGGAC GAGCTGCAAG CCACGGAGGA
 4701 CGCCAAACTG CGGCTGGAAG TCAACATGCA GGCCTCAAG GGCCAGTTTCG
 4751 AAAGGGATCT CCAAGCCCGG GACGAGCAGA ATGAGGAGAA GAGGAGGCAA
 4801 CTGCAGAGAC AGCTTCACGA GTATGAGACG GAACTGGAAG ACGAGCGAAA
 4851 GCAACGTGCC CTGGCAGCTG CAGCAAAGAA GAAGCTGGAA GGGGACCTGA
 4901 AAGACCTGGA GCTTCAGGCC GACTCTGCCA TCAAGGGGAG GGAGGAAGCC
 4951 ATCAAGCAGC TACGCAAAC TGCAGGCTCAG ATGAAGGACT TTCAAAGAGA
 5001 GCTGGAAGAT GCCCGTGCCT CCAGAGATGA GATCTTTGCC ACAGCCAAAG
 5051 AGAATGAGAA GAAAGCCAAG AGCTTGGAAG CAGACCTCAT GCAGCTACAA
 5101 GAGGACCTCG CCGCCGCTGA GAGGGCTCGC AAACAAGCGG ACCTCGAGAA
 5151 GGAGGAACTG GCAGAGGAGC TGGCCAGTAG CCTGTCGGGA AGGAACGCAC
 5201 TCCAGGACGA GAAGCGCCGC CTGGAGGCCC GGATCGCCCA GCTGGAGGAG
 5251 GAGCTGGAGG AGGAGCAGGG CAACATGGAG GCCATGAGCG ACCGGGTCCG
 5301 CAAAGCCACA CAGCAGGCCG AGCAGCTCAG CAACGAGCTG GCCACAGAGC
 5351 GCAGCACGGC CCAGAAGAAT GAGAGTGCCC GGCAGCAGCT CGAGCGGCAG
 5401 AACAAAGGAGC TCCGGAGCAA GCTCCACGAG ATGGAGGGGG CCGTCAAGTC
 5451 CAAGTTCAAG TCCACCATCG CGGCGCTGGA GGCCAAGATT GCACAGCTGG
 5501 AGGAGCAGGT CGAGCAGGAG GCCAGAGAGA AACAGGCGGC CACCAAGTCG
 5551 CTGAAGCAGA AAGACAAGAA GCTGAAGGAA ATCTTGCTGC AGGTGGAGGA
 5601 CGAGCGCAAG ATGGCCGAGC AGTACAAGGA GCAGGCAGAG AAAGGCAATG
 5651 CCAGGGTCAA GCAGCTCAAG AGGCAGCTGG AGGAGGCAGA GGAGGAGTCC
 5701 CAGCGCATCA ACGCCAACCG CAGGAAGCTG CAGCGGGAGC TGGATGAGGC
 5751 CACGGAGAGC AACGAGGCCA TGGGCCGCGA GGTGAACGCA CTCAAGAGCA
 5801 AGCTCAGAGG GCCCCCCCCA CAGGAAACTT CGCAG

FIG. 1D

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
 51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
 101 VLHNLRERYF SGLIYTYSGL FCVVVNPKYKH LPIYSEKIVD MYKGKKRHEM
 151 PPHIYAIADT AYRSMQLQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
 201 SHKGKKDTSI TQGPFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
 251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYMIAGAKE
 301 KMRSDLLLEG FNNTYFSLNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
 351 LSILKVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFT
 401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
 451 LDKTHROGAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
 501 LEQEEYQREG IEWNFIDFGL DLQPCIELIE RPNNPPGVLA LLDEECWFPPK
 551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
 601 KNMDPLNDNV TSLLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
 651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDAF
 701 LVLEQLRCNG VLEGIRICRQ GFPNRIVFQE FRQRYEILAA NAIPKGFMDG
 751 KQACILMIKA LELDPNLYRI GQSKIFFRTG VLAHLEERD LKITDVIMAF
 801 QAMCRGYLAR KAFAKRQQQL TAMKVIQRNC AAYLKL RNWQ WWRLFTKVKP
 851 LLQVTRQEEE MQAKEDELQK TKERQQKAEN ELKELEQKHS QLTEEKNNLQ
 901 EQLQAETELY AEAEEMRVRL AAKQEELEI LHEMEARLEE EEDRGQQLQA
 951 ERKKMAQQML DLEEQLLEEE AARQKLQLEK VTAEAKIKKL EDEILVMDDQ
 1001 NNLKSKERKL LEERISDLTT NLAESEEKAK NLTKLKNKHE SMISELEVRL
 1051 KKEEKSREL EKLKRKLEGD ASDFHEQIAD LQAQIAELKM QLAKKEEELQ
 1101 AALARLDDEI AQKNNALKKI RELEGHISDL QEDLDSEAAA RNKAEKQKRD
 1151 LGEELEALKT ELEDTLDDTA TQQELRAKRE QEVTVLKKAL DEETRSHEAQ
 1201 VQEMRQKHAQ AVEELTEQLE QFKRAKANLD KNKQMLEKEN ADLAGELRVL
 1251 GQAKQEVEHK KKKLEAQVQE LQSKCSDGER ARAELNDKVH KLQNEVESVT
 1301 GMLNEAEGKA IKLAKDVASL SSQLODTQEL LQEBTRQKLN VSTKLRLQEE
 1351 ERNSLQDQLD EEMEAKQNL RHISTLNIQL SDSKKKLQDF ASTVEALEEG
 1401 KKRQKEIEN LTQQYEEKAA AYDKLEKTKN RLQQELDDL VDLNQRQLV
 1451 SNLEKKQRKF DQLLAEEKNI SSKYADERDR AEAEAREKET KALSLARALE
 1501 EALEAKEELE RTNKMLKAEM EDLVSSKDDV GKNVHELEKS KRALETQMEE

FIG. 2A

1551 MKTQLEEELED ELQATEDAKL RLEVNMQALK GQFERDLQAR DEQNEEKRRQ
1601 LQRQLHEYET ELEDERKQRA LAAAANKKLE GDLKDLELQA DSAIKGREEA
1651 IKQLRKLQAO MKDFQRELED ARASRDEIFA TAKENEEKKAK SLEADLMQLQ
1701 EDLAAAERAR KQADLEKEEL AEELASSLSG RNALQDEKRR LEARIAQLEE
1751 EEEEEQGNME AMSDRVRKAT QQAEQLSNEL ATERSTAQKN ESARQQLERQ
1801 NKELRSKLHE MEGAVKSKFK STIAALEAKI AQLEEQVEQE AREKQAATKS
1851 LKQKDKKLKE ILLQVEDERK MAEQYKEQAE KGNARVKQLK RQLEEAEES
1901 QRINANRRKL QRELDEATES NEAMGREVNA LKSKLRGPPP QETSQ

FIG. 2B

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1 ATGGCGCAGA AGGGCCAACT CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAAATTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTGCAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTTCAGT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAACG ACAACTCCTC ACGATTCCGG
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTTCG CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAAC ACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTCACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTTCGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 3A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
 1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
 1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
 1701 CCCCAGGTTT CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
 1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
 1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
 1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
 1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
 1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
 2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCC AACTTCGTGC
 2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
 2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTGCGAT
 2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
 2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
 2251 AAGCAGGCCT GCATTCTCAT GATCAAAGCC CTGGAAGTTG ACCCCAAGTT
 2301 ATACAGGATA GGGCAGAGCA AAATCTTCTT CCGAACTGGC GTCCTGGCCC
 2351 ACCTAGAGGA GGAGCGAGAT TTGAAGATCA CCGATGTCAT CATGGCCTTC
 2401 CAGGCGATGT GTCGTGGCTA CTTGGCCAGA AAGGCTTTTG CCAAGAGGCA
 2451 GCAGCAGCTG ACCGCCATGA AGGTGATTCA GAGGAACTGC GCCGCCTACC
 2501 TCAAGCTGCG GAACTGGCAG TGGTGGAGGC TTTTCACCAA AGTGAAGCCA
 2551 CTGCTGCAGG TGACACGGCA GGAGGAGGAG ATGCAGGCCA AGGAGGATGA
 2601 ACTGCAGAAG ACCAAGGAGC GGCAGCAGAA GGCAGAGAAT GAGCTTAAGG
 2651 AGCTGGAACA GAAGCACTCG CAGCTGACCG AGGAGAAGAA CCTGCTACAG
 2701 GAACAGCTGC AGGCAGAGAC AGAGCTGTAT GCAGAGGCTG AGGAGATGCG
 2751 GGTGCGGCTG GCGGCCAAGA AGCAGGAGCT GGAGGAGATA CTGCATGAGA
 2801 TGGAGGCCCC CCTGGAGGAG GAGGAAGACA GGGGCCAGCA GCTACAGGCT
 2851 GAAAGGAAGA AGATGGCCCA GCAGATGCTG GACCTTGAAG AACAGCTGGA
 2901 GGAGGAGGAA GCTGCCAGGC AGAAGCTGCA ACTTGAGAAG GTCACGGCTG
 2951 AGGCCAAGAT CAAGAACTG GAGGATGAGA TCCTGGTCAT GGATGATCAG
 3001 AACAATAAAC TATCAAAAGA ACGAAAACCT CTTGAGGAGA GGATTAGTGA
 3051 CTTAACGACA AATCTTGCAG AAGAGGAAGA AAAGGCCAAG AATCTTACCA

FIG. 3B

3101 AGCTGAAAAA CAAGCATGAA TCTATGATTT CAGAACTGGA AGTGCGGCTA
 3151 AAGAAGGAAG AGAAGAGCCG ACAGGAGCTG GAGAAGCTGA AACGGAAGCT
 3201 GGAGGGTGAT GCCAGCGACT TCCACGAGCA GATCGCTGAC CTCCAGGCGC
 3251 AGATCGCAGA GCTCAAGATG CAGCTGGCCA AGAAGGAGGA GGAGCTGCAG
 3301 GCGGCCCTGG CCAGGCTTGA CGATGAAATC GCTCAGAAGA ACAATGCCCT
 3351 GAAGAAGATC CGGGAGCTGG AGGGCCACAT CTCAGACCTC CAGGAGGACC
 3401 TGGACTCAGA GCGGGCCGCC AGGAACAAGG CTGAAAAGCA GAAGCGAGAC
 3451 CTCGGCGAGG AGCTGGAGGC CCTAAAGACA GAGCTGGAAG ACACACTGGA
 3501 CAGCACAGCC ACTCAGCAGG AGCTCAGGGC CAAGAGGGAG CAGGAGGTGA
 3551 CGGTGCTGAA GAAGGCCCTG GATGAAGAGA CGCGGTCCCA TGAGGCTCAG
 3601 GTCCAGGAGA TGAGGCAGAA ACACGCACAG GCGGTGGAGG AGCTCACAGA
 3651 GCAGCTTGAG CAGTTCAAGA GGGCCAAGGC GAACCTAGAC AAGAATAAGC
 3701 AGACGCTGGA GAAAGAGAAC GCAGACCTGG CCGGGGAGCT GCGGGTCCTG
 3751 GGCCAGGCCA AGCAGGAGGT GGAACATAAG AAGAAGAAGC TGGAGGCGCA
 3801 GGTGCAGGAG CTGCAGTCCA AGTGCAGCGA TGGGGAGCGG GCGGGGCGG
 3851 AGCTCAATGA CAAAGTCCAC AAGCTGCAGA ATGAAGTTGA GAGCGTCACA
 3901 GGGATGCTTA ACGAGGCCGA GGGGAAGGCC ATTAAGCTGG CCAAGGACGT
 3951 GGCGTCCCTC AGTTCCCAGC TCCAGGACAC CCAGGAGCTG CTTCAAGAAG
 4001 AAACCCGGCA GAAGCTCAAC GTGTCTACGA AGCTGCGCCA GCTGGAGGAG
 4051 GAGCGGAACA GCCTGCAAGA CCAGCTGGAC GAGGAGATGG AGGCCAAGCA
 4101 GAACCTGGAG CGCCACATCT CCACTCTCAA CATCCAGCTC TCCGACTCGA
 4151 AGAAGAAGCT GCAGGACTTT GCCAGCACCG TGGAAGCTCT GGAAGAGGGG
 4201 AAGAAGAGGT TCCAGAAGGA GATCGAGAAC CTCACCCAGC AGTACGAGGA
 4251 GAAGGCGGCC GCTTATGATA AACTGGAAAA GACCAAGAAC AGGCTTCAGC
 4301 AGGAGCTGGA CGACCTGGTT GTTGATTTGG ACAACCAGCG GCAACTCGTG
 4351 TCCAACCTGG AAAAGAAGCA GAGGAAATTT GATCAGTTGT TAGCCGAGGA
 4401 GAAAAACATC TCTTCAAAT ACGCGGATGA GAGGGACAGA GCTGAGGCAG
 4451 AAGCCAGGGA GAAGGAAACC AAGGCCCTGT CCCTGGCTCG GGCCCTTGAA
 4501 GAGGCCTTGG AAGCCAAAGA GGAAGTCGAG CGGACCAACA AAATGCTCAA
 4551 AGCCGAAATG GAAGACCTGG TCAGCTCCAA GGATGACGTG GGCAAGAACG
 4601 TCCATGAGCT GGAGAAGTCC AAGCGGGCCC TGGAGACCCA GATGGAGGAG

FIG. 3C

4651 ATGAAGACGC AGCTGGAAGA GCTGGAGGAC GAGCTGCAAG CCACGGAGGA
 4701 CGCCAAACTG CGGCTGGAAG TCAACATGCA GGCGCTCAAG GGCCAGTTTCG
 4751 AAAGGGATCT CCAAGCCCGG GACGAGCAGA ATGAGGAGAA GAGGAGGCAA
 4801 CTGCAGAGAC AGCTTCACGA GTATGAGACG GAACTGGAAG ACGAGCGAAA
 4851 GCAACGTGCC CTGGCAGCTG CAGCAAAGAA GAAGCTGGAA GGGGACCTGA
 4901 AAGACCTGGA GCTTCAGGCC GACTCTGCCA TCAAGGGGAG GGAGGAAGCC
 4951 ATCAAGCAGC TACGCAAACT GCAGGCTCAG ATGAAGGACT TTCAAAGAGA
 5001 GCTGGAAGAT GCCCGTGCC TCCAGAGATGA GATCTTTGCC ACAGCCAAAG
 5051 AGAATGAGAA GAAAGCCAAG AGCTTGGAAG CAGACCTCAT GCAGCTACAA
 5101 GAGGACCTCG CCGCCGCTGA GAGGGCTCGC AAACAAGCGG ACCTCGAGAA
 5151 GGAGGAACTG GCAGAGGAGC TGGCCAGTAG CCTGTCGGGA AGGAACGCAC
 5201 TCCAGGACGA GAAGCGCCGC CTGGAGGCC CCGATCGCCA GCTGGAGGAG
 5251 GAGCTGGAGG AGGAGCAGGG CAACATGGAG GCCATGAGCG ACCGGGTCCG
 5301 CAAAGCCACA CAGCAGGCCG AGCAGCTCAG CAACGAGCTG GCCACAGAGC
 5351 GCAGCACGGC CCAGAAGAAT GAGAGTGCCC GGCAGCAGCT CGAGCGGCAG
 5401 AACAAGGAGC TCCGGAGCAA GCTCCACGAG ATGGAGGGGG CCGTCAAGTC
 5451 CAAGTTCAAG TCCACCATCG CGGCGCTGGA GGCCAAGATT GCACAGCTGG
 5501 AGGAGCAGGT CGAGCAGGAG GCCAGAGAGA AACAGGCGGC CACCAAGTCG
 5551 CTGAAGCAGA AAGACAAGAA GCTGAAGGAA ATCTTGCTGC AGGTGGAGGA
 5601 CGAGCGCAAG ATGGCCGAGC AGTACAAGGA GCAGGCAGAG AAAGGCAATG
 5651 CCAGGGTCAA GCAGCTCAAG AGGCAGCTGG AGGAGGCAGA GGAGGAGTCC
 5701 CAGCGCATCA ACGCCAACCG CAGGAAGCTG CAGCGGGAGC TGGATGAGGC
 5751 CACGGAGAGC AACGAGGCCA TGGGCCGCGA GGTGAACGCA CTCAAGAGCA
 5801 AGCTCAGGCG AGGAAACGAG ACCTCTTTTCG TTCCTTCTAG AAGGTCTGGA
 5851 GGACGTAGAG TTATTGAAAA TGCAGATGGT TCTGAGGAGG AAACGGACAC
 5901 TCGAGACGCA GACTTCAATG GAACCAAGGC CAGTGAA

FIG. 3D

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1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEAASI
51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
101 VLHNLRLERYF SGLIYTYSGL FCVVVNPYKH LPIYSEKIVD MYKGKKRHEM
151 PPHIYAIADT AYRSMQLQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
201 SHKGKKDTSI TQGPSFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYymiAGAKE
301 KMRSDDLLEG FNNTYFSLNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
351 LSILKVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFT
401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
451 LDKTHRQAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
501 LEQEYQREG IEWNFIDFGL DLQPCIELIE RPNNPPGVLA LLDEECWFPPK
551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
601 KNMDPLNDNV TSLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDAF
701 LVLEQLRCNG VLEGIRICRQ GFPNRIVFQE FRQRYEILAA NAIPKGFMDG
751 KQACILMIKA LELDPNLYRI GQSKIFFRTG VLAHLEERD LKITDVIMAF
801 QAMCRGYLAR KAFAKRQQQL TAMKVIQRNC AAYLKLNRWQ WWRLFTKVKP
851 LLQVTRQEEE MQAKEDELQK TKERQQAEN ELKELEQKHS QLTEEKNLQ
901 EQLQAETELY AEAEEMRVL AAKQEELEI LHEMEARLEE EEDRGQQLQA
951 ERKKMAQML DLEEQLEEEE AARQKLQLEK VTAEAKIKKL EDEILVMDDQ
1001 NNLKSKERKL LEERISDLTT NLAESEEKAK NLTKLKNKHE SMISELEVL
1051 KKEEKSREL EKLKRKLEGD ASDFHEQIAD LQAQIAELKM QLAKKEEELQ
1101 AALARLDDEI AQKNNALKKI RELEGHISDL QEDLDSEAA RNKAEKQKR
1151 LGEELEALKT ELEDTLSTA TQQLRAKRE QEVTVLKKAL DEETRSHEAQ
1201 VQEMRQKHAQ AVEELTEQLE QFKRAKANLD KNKQTLKEN ADLAGELRVL
1251 GQAKQEVVHK KKKLEAQVQE LQSKCSDGER ARAELNDKVH KLQNEVESVT
1301 GMLNEAEGKA IKLAKDVASL SSQLODTQEL LQEETRQKLN VSTKLRLQEE
1351 ERNSLQDQLD EEMEAKQNL RHISTLNIQL SDSKKKLQDF ASTVEALEEG
1401 KKRQKEIEN LTQQYEEKAA AYDKLEKTKN RLQQLDDLV VDLNQRQLV
1451 SNLEKKQRKF DQLLAEEKNI SSKYADERDR AEAEAREKET KALSLARALE
1501 EALEAKEELE RTNKMLKAEM EDLVSSKDDV GKNVHELEKS KRALETQMEE

FIG. 4A

1551 MKTQLEELED ELQATEDAKL RLEVNMQALK GQFERDLQAR DEQNEEKRRQ
1601 LQRQLHEYET ELEDERKQRA LAAAANKKLE GDLKDLELQA DSAIKGREEA
1651 IKQLRKLQAO MKDFQRELED ARASRDEIFA TAKENEEKKAK SLEADLMQLQ
1701 EDLAAAERAR KQADLEKEEL AEELASSLSG RNALQDEKRR LEARIAQLEE
1751 EEEEEQGNME AMSDRVRKAT QQAEQLSNEL ATERSTAQKN ESARQQLERQ
1801 NKELRSKLHE MEGAVKSKFK STIAALEAKI AQLEEQVEQE AREKQAATKS
1851 LKQKDKKLKE ILLQVEDERK MAEQYKEQAE KGNARVKQLK RQLEEAEES
1901 QRINANRRKL QRELDEATES NEAMGREVNA LKSKLRRGNE TSFVPSRRSG
1951 GRRVIENADG SEEETDTRDA DFNGTKASE

FIG. 4B

09927597.081001

1 ATGGCGCAGA AGGGCCAACT CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTTCAGT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAACG ACAACTCCTC ACGATTTCGGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTTCG CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAAC ACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTCACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTTCGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 5A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GTCATCGAG CGACCGAACA
1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCG

FIG. 5B

09927597.081001

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
 51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
 101 VLHNLRRERYF SGLIYTYSGL FCVVVNPKYH LPIYSEKIVD MYKGKKRHEM
 151 PPHIYAIADT AYRSMLQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
 201 SHKGKKDTSI TQGPFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
 251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYMIAGAKE
 301 KMRSDLLLEG FNNTFSLNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
 351 LSILKVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFI
 401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
 451 LDKTHRQGAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
 501 LEQEEYQREG IEWNFIDFGL DLQPCIELIE RPNNPPGVLA LLDEECWFPPK
 551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
 601 KNMDPLNDNV TSLLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
 651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDA

FIG. 6

09927597-081001

1 ATGGCGCAGA AGGGCCAACT CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAAATTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTTCAGT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAACG ACAACTCCTC ACGATTCCGGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTTCG CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAACT ACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTCACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTTCGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 7A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GCTCATCGAG CGACCGAACA
 1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
 1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
 1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
 1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
 1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
 1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
 1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
 1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
 2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
 2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
 2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTGCGCAT
 2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
 2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
 2251 AAGCAGGCCT GCATTCTCAT GATCAAAGCC CTGGAAGTTG ACCCCAAGTT
 2301 ATACAGGATA GGGCAG

FIG. 7B

09927597.081001

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
 51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
 101 VLHNLRERYF SGLIYTYSGL FCVVVNPYKH LPIYSEKIVD MYKGKKRHEM
 151 PPHIYAIADT AYRSMQLDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
 201 SHKGKKDTSI TQGSPFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
 251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYMIAGAKE
 301 KMRSDDLLEG FNNTYFLSNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
 351 LSILKVVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFT
 401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
 451 LDKTHRQGAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
 501 LEQEYQREG IEWNFIDFGL DLQPCIELIE RPNNPPGVLA LLDEECWFPPK
 551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
 601 KNMDPLNDNV TSLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
 651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDAF
 701 LVLEQLRCNG VLEGIRICRQ GFPNRIVFQE FRQRYEILAA NAIPKGFMDG
 751 KQACILMIKA LEIDPNLYRI GQ

FIG. 8

1 ATGGCGCAGA AGGGCCAACT CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAAATTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTTCAGT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAACG ACAACTCCTC ACGATTCCGGC
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTTCATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTTCG CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAACCT ACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTACAC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTCGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 9A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GTCATCGAG CGACCGAACA
 1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
 1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
 1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
 1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
 1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
 1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
 1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
 1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
 2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
 2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
 2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTGCGAT
 2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
 2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
 2251 AAGCAGGCCT GCATTCTCAT GATCAAAGCC CTGGAAGTTG ACCCCAAGTT
 2301 ATACAGGATA GGGCAGAGCA AAATCTTCTT CCGAACTGGC GTCCTGGCCC
 2351 ACCTAGAGGA GGAGCGAGAT TTGAAGATCA CCGATGTCAT CATGGCCTTC
 2401 CAGGCGATGT GTCGTGGCTA CTTGGCCAGA AAGGCTTTTG CCAAGAGGCA
 2451 GCAGCAGCTG ACCGCCATGA AGGTGATTCA GAGGAACTGC GCCGCCTACC
 2501 TCAAGCTGCG GAACTGGCAG TGGTGGAGGC TTTTCACCAA AGTGAAG

FIG. 9B

1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
 51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
 101 VLHNLRLERYF SGLIYTYSGL FCVVVNPHYKH LPIYSEKIVD MYKGKKRHEM
 151 PPHIYAIADT AYRSMQLDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
 201 SHKGKKDTSI TQGPFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFQ
 251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYMIAGAKE
 301 KMRSDLLLEG FNNTYFSLNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
 351 LSILKVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFQ
 401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
 451 LDKTHRQGAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
 501 LEQEEYQREG IEWNFIDFGL DLQPCIELIE RPNNPPGVLA LLDEECWFQK
 551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
 601 KNMDPLNDNV TSLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
 651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDAF
 701 LVLEQLRCNG VLEGIRICRQ GFPNRIVFQE FRQRYEILAA NAIPKGFMDG
 751 KQACILMIKA LELDPNLYRI GQSKIFFRTG VLAHLEEERD LKITDVIMAF
 801 QAMCRGYLAR KAFKRQQQL TAMKVIQRNC AAYLKLRNWQ WWRLFTKVK

FIG. 10

1 ATGGCGCAGA AGGGCCAACT CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTTCAGT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGCAAGGCC CATCTTTTGC
 651 CTACGGAGAG CTGGAAAAGC AGCTTCTACA AGCAAACCCG ATTCTGGAGG
 701 CTTTCGGCAA CGCCAAAACA GTGAAGAACG ACAACTCCTC ACGATTCCGG
 751 AAATTCATCC GCATCAACTT CGACGTCACG GGTACATCG TGGGAGCCAA
 801 CATTGAGACC TATCTGCTAG AAAAATCACG GGCAATTTCG CAAGCCAGAG
 851 ACGAGAGGAC ATTCCACATC TTTTACTACA TGATTGCTGG AGCCAAGGAG
 901 AAGATGAGAA GTGACTTGCT TTTGGAGGGC TTCAACAAC ACACCTTCCT
 951 CTCCAATGGC TTTGTGCCCCA TCCCAGCAGC CCAGGATGAT GAGATGTTCC
 1001 AGGAAACCGT GGAGGCCATG GCAATCATGG GTTTCAGCGA GGAGGAGCAG
 1051 CTATCCATAT TGAAGGTGGT ATCATCGGTC CTGCAGCTTG GAAATATCGT
 1101 CTTCAAGAAG GAAAGAAACA CAGACCAGGC GTCCATGCCA GATAACACAG
 1151 CTGCTCAGAA AGTTTGCCAC CTCATGGGAA TTAATGTGAC AGATTTCACC
 1201 AGATCCATCC TCACTCCTCG TATCAAGGTT GGGCGAGATG TGGTACAGAA
 1251 AGCTCAGACA AAAGAACAGG CTGACTTTGC TGTAAGAGGCT TTGGCCAAGG
 1301 CAACATATGA GCGCCTTTTC CGCTGGATAC TCACCCGCGT GAACAAAGCC
 1351 CTGGACAAGA CCCATCGGCA AGGGGCTTCC TTCCTGGGGA TCCTGGATAT
 1401 AGCTGGATTT GAGATCTTTG AGGTGAACTC CTTTCGAGCAG CTGTGCATCA
 1451 ACTACACCAA CGAGAAGCTG CAGCAGCTCT TCAACCACAC CATGTTTCATC
 1501 CTGGAGCAGG AGGAGTACCA GCGCGAGGGC ATCGAGTGGA ACTTCATCGA

FIG. 11A

1551 CTTTGGGCTG GACCTACAGC CCTGCATCGA GTCATCGAG CGACCGAACA
 1601 ACCCTCCAGG TGTGCTGGCC CTGCTGGACG AGGAATGCTG GTTCCCCAAA
 1651 GCCACGGACA AGTCTTTCGT GGAGAAGCTG TGCACGGAGC AGGGCAGCCA
 1701 CCCCAGTTC CAGAAGCCCA AGCAGCTCAA GGACAAGACT GAGTTCTCCA
 1751 TCATCCATTA TGCTGGGAAG GTGGACTATA ATGCGAGTGC CTGGCTGACC
 1801 AAGAATATGG ACCCGCTGAA TGACAACGTG ACTTCCCTGC TCAATGCCTC
 1851 CTCCGACAAG TTTGTGGCCG ACCTGTGGAA GGACGTGGAC CGCATCGTGG
 1901 GCCTGGACCA GATGGCCAAG ATGACGGAGA GCTCGCTGCC CAGCGCCTCC
 1951 AAGACCAAGA AGGGCATGTT CCGCACAGTG GGGCAGCTGT ACAAGGAGCA
 2001 GCTGGGCAAG CTGATGACCA CGCTACGCAA CACCACGCCC AACTTCGTGC
 2051 GCTGCATCAT CCCCACCAC GAGAAGAGGT CCGGCAAGCT GGATGCGTTC
 2101 CTGGTGCTGG AGCAGCTGCG GTGCAATGGG GTGCTGGAAG GCATTCGCAT
 2151 CTGCCGGCAG GGCTTCCCCA ACCGGATCGT CTTCCAGGAG TTCCGCCAAC
 2201 GCTACGAGAT CCTGGCGGCG AATGCCATCC CCAAAGGCTT CATGGACGGG
 2251 AAGCAGGCCT GCATTCTCAT GATCAAAGCC CTGGAAGTTG ACCCCAAGTT
 2301 ATACAGGATA GGGCAGAGCA AAATCTTCTT CCGAACTGGC GTCCTGGCCC
 2351 ACCTAGAGGA GGAGCGAGAT TTGAAGATCA CCGATGTCAT CATGGCCTTC
 2401 CAGGCGATGT GTCGTGGCTA CTTGGCCAGA AAGGCTTTTG CCAAGAGGCA
 2451 GCAGCAGCTG ACCGCCATGA AGGTGATTCA GAGGAACTGC GCCGCCTACC
 2501 TCAAGCTGCG GAACTGGCAG TGGTGGAGGC TTTTCACCAA AGTGAAGCCA
 2551 CTGCTG

FIG. 11B

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1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEEAASI
 51 KEEKGDEVVV ELVENGKKVT VGKDDIQKMN PPKFSKVEDM AELTCLNEAS
 101 VLHNLRLERYF SGLIYTYSGL FCVVVNPYKH LPIYSEKIVD MYKGKKRHEM
 151 PPHIYAIADT AYRSMLQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
 201 SHKGKKDTSI TQGSPFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
 251 KFIRINFDTV GYIVGANIET YLLEKSRAIR QARDERTFHI FYymiAGAKE
 301 KMRSDDLLEG FNNTYFLSNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
 351 LSILKVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDF
 401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
 451 LDKTHRQAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
 501 LEQEEYQREG IEWNFIDFGL DLQPCIELIE RPNNPPGVLA LLDEECWFPPK
 551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
 601 KNMDPLNDNV TSLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
 651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDAF
 701 LVLEQLRCNG VLEGIRICRQ GFPNRIVFQE FRQRYEILAA NAIPKGFMDG
 751 KQACILMIKA LELDPNLYRI GQSKIFFRTG VLAHLEEERD LKITDVIMAF
 801 QAMCRGYLAR KAFKRQQQL TAMKVIQRNC AAYLKLNRWQ WWRLFTKVKP
 851 LL

FIG. 12

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1 ATGGCGCAGA AGGGCCAACT CAGTGACGAT GAGAAGTTCC TCTTTGTGGA
 51 CAAAAACTTC ATCAACAGCC CAGTGGCCCA GGCTGACTGG GCCGCCAAGA
 101 GACTCGTCTG GGTCCCCTCG GAGAAGCAGG GCTTCGAGGC AGCCAGCATT
 151 AAGGAGGAGA AGGGGGATGA GGTGGTTGTG GAGCTGGTGG AGAATGGCAA
 201 GAAGGTCACG GTTGGGAAAAG ATGACATCCA GAAGATGAAC CCACCCAAGT
 251 TCTCCAAGGT GGAGGACATG GCGGAGCTGA CGTGCCTCAA CGAAGCCTCC
 301 GTGCTACACA ACCTGAGGGA GCGGTACTTC TCAGGGCTAA TATATACGTA
 351 CTCTGGCCTC TTCTGCGTGG TGGTCAACCC CTATAAACAC CTGCCCATCT
 401 ACTCGGAGAA GATCGTCGAC ATGTACAAGG GCAAGAAGAG GCACGAGATG
 451 CCGCCTCACA TCTACGCCAT CGCAGACACG GCCTACCGGA GCATGCTTCA
 501 AGATCGGGAG GACCAGTCCA TTCTATGCAC AGGCGAGTCT GGAGCCGGGA
 551 AAACCGAAAA CACCAAGAAG GTCATTAGT ACCTGGCCGT GGTGGCCTCC
 601 TCCCACAAGG GCAAGAAAGA CACAAGTATC ACGGGAGAGC TGGAAAAGCA
 651 GCTTCTACAA GCAAACCCGA TTCTGGAGGC TTTCGGCAAC GCCAAAACAG
 701 TGAAGAACGA CAACTCCTCA CGATTTCGCA AATTCATCCG CATCAACTTC
 751 GACGTCACGG GTTACATCGT GGGAGCCAAC ATTGAGACCT ATCTGCTAGA
 801 AAAATCACGG GCAATTGCGC AAGCCAGAGA CGAGAGGACA TTCCACATCT
 851 TTTACTACAT GATTGCTGGA GCCAAGGAGA AGATGAGAAG TGACTTGCTT
 901 TTGGAGGGCT TCAACAATA CACCTTCCTC TCCAATGGCT TTGTGCCCAT
 951 CCCAGCAGCC CAGGATGATG AGATGTTCCA GGAAACCGTG GAGGCCATGG
 1001 CAATCATGGG TTTCAGCGAG GAGGAGCAGC TATCCATATT GAAGGTGGTA
 1051 TCATCGGTCC TGCAGCTTGG AAATATCGTC TTCAAGAAGG AAAGAAACAC
 1101 AGACCAGGCG TCCATGCCAG ATAACACAGC TGCTCAGAAA GTTTGCCACC
 1151 TCATGGGAAT TAATGTGACA GATTTACCA GATCCATCCT CACTCCTCGT
 1201 ATCAAGGTTG GGCGAGATGT GGTACAGAAA GCTCAGACAA AAGAACAGGC
 1251 TGACTTTGCT GTAGAGGCTT TGGCCAAGGC AACATATGAG CGCCTTTTCC
 1301 GCTGGATACT CACCCGCGTG AACAAAGCCC TGGACAAGAC CCATCGGCAA
 1351 GGGGCTTCCT TCCTGGGGAT CCTGGATATA GCTGGATTG AGATCTTTGA
 1401 GGTGAACTCC TTCGAGCAGC TGTGCATCAA CTACACCAAC GAGAAGCTGC
 1451 AGCAGCTCTT CAACCACACC ATGTTTCATCC TGGAGCAGGA GGAGTACCAG
 1501 CGCGAGGGCA TCGAGTGGA CTTTCATCGAC TTTGGGCTGG ACCTACAGCC

FIG. 13A

1551 CTGCATCGAG CTCATCGAGC GACCGAACAA CCCTCCAGGT GTGCTGGCCC
 1601 TGCTGGACGA GGAATGCTGG TTCCCCAAAG CCACGGACAA GTCTTTCGTG
 1651 GAGAAGCTGT GCACGGAGCA GGGCAGCCAC CCCAAGTTCC AGAAGCCCAA
 1701 GCAGCTCAAG GACAAGACTG AGTTCTCCAT CATCCATTAT GCTGGGAAGG
 1751 TGGACTATAA TGCGAGTGCC TGGCTGACCA AGAATATGGA CCCGCTGAAT
 1801 GACAACGTGA CTTCCCTGCT CAATGCCTCC TCCGACAAGT TTGTGGCCGA
 1851 CCTGTGGAAG GACGTGGACC GCATCGTGGG CCTGGACCAG ATGGCCAAGA
 1901 TGACGGAGAG CTCGCTGCCC AGCGCCTCCA AGACCAAGAA GGGCATGTTC
 1951 CGCACAGTGG GGCAGCTGTA CAAGGAGCAG CTGGGCAAGC TGATGACCAC
 2001 GCTACGCAAC ACCACGCCCCA ACTTCGTGCG CTGCATCATC CCCAACCACG
 2051 AGAAGAGGTC CGGCAAGCTG GATGCGTTCC TGGTGCTGGA GCAGCTGCGG
 2101 TGCAATGGGG TGCTGGAAGG CATTCGCATC TGCCGGCAGG GCTTCCCCAA
 2151 CCGGATCGTC TTCCAGGAGT TCCGCCAACG CTACGAGATC CTGGCGGCGA
 2201 ATGCCATCCC CAAAGGCTTC ATGGACGGGA AGCAGGCCTG CATTCTCATG
 2251 ATCAAAGCCC TGGAACCTGA CCCCAACTTA TACAGGATAG GGCAGAGCAA
 2301 AATCTTCTTC CGAACTGGCG TCCTGGCCCA CCTAGAGGAG GAGCGAGATT
 2351 TGAAGATCAC CGATGTCATC ATGGCCTTCC AGGCGATGTG TCGTGGCTAC
 2401 TTGGCCAGAA AGGCTTTTGC CAAGAGGCAG CAGCAGCTGA CCGCCATGAA
 2451 GGTGATTGAG AGGAACTGCG CCGCCTACCT CAAGCTGCGG AACTGGCAGT
 2501 GGTGGAGGCT TTTCACCAA GTGAAGCCAC TGCTG

FIG. 13B

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1 MAQKGQLSDD EKFLFVDKNF INSPVAQADW AAKRLVWVPS EKQGFEAASI
 51 KEEKGDEVVV ELVENGKKT VGGDDIQKMN PPKFSKVEDM AELTCLNEAS
 101 VLHNLRRERYF SGLIYTYSGL FCVVVNPKYH LPIYSEKIVD MYKGKKRHEM
 151 PPHIYAIADT AYRSMQDRE DQSILCTGES GAGKTENTKK VIQYLAVVAS
 201 SHKGKKDTSI TQGPSFAYGE LEKQLLQANP ILEAFGNAKT VKNDNSSRFG
 251 KFIRINFDVT GYIVGANIET YLLEKSRAIR QARDERTFHI FYYMIAGAKE
 301 KMRSDDLLEG FNNTYFLSNG FVPIPAQDD EMFQETVEAM AIMGFSEEEQ
 351 LSILKVSSV LQLGNIVFKK ERNTDQASMP DNTAAQKVCH LMGINVTDFT
 401 RSILTPRIKV GRDVVQKAQT KEQADFAVEA LAKATYERLF RWILTRVNKA
 451 LDKTHRQAS FLGILDIAGF EIFEVNSFEQ LCINYTNEKL QQLFNHTMFI
 501 LEQEYQREG IEWNFIDFGL DLQPCIELIE RPNNPPGVLA LLDEECWFPK
 551 ATDKSFVEKL CTEQGSHPKF QKPKQLKDKT EFSIIHYAGK VDYNASAWLT
 601 KNMDPLNDNV TSLNASSDK FVADLWKDVD RIVGLDQMAK MTESSLPSAS
 651 KTKKGMFRTV GQLYKEQLGK LMTTLRNTTP NFVRCIIPNH EKRSGLDA

FIG. 14

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